

## **AMENDMENTS TO THE CLAIMS**

Claims 1 - 46 (cancelled)

47. (New) An optical examination device, comprising:  
an optical source for emitting light in the visible to infrared range and an optical detector;  
an array of optical fibers including end portions freely protruding from a support and  
arranged for engaging the scalp or skin of a subject, said optical fibers including proximal ends  
arrayed for coupling light between said light source and detector fibers by indexing in space fiber  
locations with respect to tissue positions of said end portions engaging the scalp or skin of said  
subject; and  
a controller constructed and arranged to control operation of said light source and  
detector and control introduction and detection of light at said arrayed proximal ends.